

ORDINANCE NO. 22836-08-2017

AN ORDINANCE AMENDING THE FORT WORTH ELECTRICAL CODE, BY ADOPTING THE 2017 NATIONAL ELECTRICAL CODE, WITH LOCAL AMENDMENTS; AMENDING SECTIONS 11-1 THROUGH 11-4 OF THE CODE OF THE CITY OF FORT WORTH (2015); REGULATING ERECTION, CONSTRUCTION, ENLARGEMENT, ALTERATION, REPAIR, MOVING, REMOVAL, DEMOLITION, CONVERSION, EQUIPMENT, DESIGN, QUALITY OF MATERIALS, USE AND MAINTENANCE OF ELECTRICAL EQUIPMENT IN THE CITY OF FORT WORTH, TEXAS; DEFINING CERTAIN TERMS; ESTABLISHING MINIMUM REQUIREMENTS FOR THE INSTALLATION, ALTERATION OR REPAIR OF ELECTRICAL SYSTEMS; PROVIDING FOR THE ISSUANCE OF PERMITS AND THE COLLECTION OF FEES THEREOF; PROVIDING FOR THE INSPECTION OF SUCH SYSTEMS; REQUIRING AND REGULATING LICENSES AND REGISTRATIONS FOR ELECTRICIANS AND PRESCRIBING THE FEES THEREFOR; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR A PENALTY CLAUSE; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE; PROVIDING FOR PUBLICATION IN PAMPHLET FORM; PROVIDING FOR PUBLICATION IN THE OFFICIAL NEWSPAPER AND PROVIDING AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FORT WORTH, TEXAS:

SECTION 1.

Section 11-1 of the Code of the City of Fort Worth (2015 is amended to read as follows:

Sec. 11-1. 20147 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED.

(a) The Electrical Code of the City of Fort Worth is hereby revised and amended to conform, with certain exceptions as specified below, to the 20147 edition of the National Electrical Code of the National Fire Protection Association (NFPA), and the same as amended is hereby adopted as the City's Electrical Code. One (1) copy of the 2017 National Electrical Code marked as Exhibit "A", is incorporated herein by reference and shall be filed in the Office of the City Secretary for permanent record and inspection.

(b) This code shall serve as the electrical provisions of the *International Residential Code*, as adopted elsewhere.

(c) Any Errata corrections published by the National Fire Protection Association for the 2017 National Electrical Code (NFPA70), as they are discovered, are considered as part of this code.

SECTION 2.

That Section 11-2 of the Code of the City of Fort Worth (2015) is hereby amended to read as follows:

Sec. 11-2. Amendments.

The 2017 edition of the National Electrical Code is hereby amended as follows:

**NEC Chapters A through F are hereby deleted and replaced with the Fort Worth Administrative Code.*

(b). The remaining Articles of the 2017 NEC are hereby amended as follows:

ARTICLE 100

**Article 100, Part I; definitions are changed and new definitions are added to read as follows:*

BUILDING. A structure that stands alone.

BUILDING CODE. Building Code shall mean the *International Building Code* as adopted by this jurisdiction.

ELECTRICAL CODE. Electrical Code shall mean the *National Electrical Code* as adopted by this jurisdiction. For the purpose of this code, all references to NFPA 70-shall be assumed to mean the Electrical Code as defined herein.

ENERGY CODE. Energy Code shall mean the *International Energy Conservation Code* as adopted by this jurisdiction.

ENGINEERING SUPERVISION. Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations.

FIRE PREVENTION CODE (FIRE CODE). Fire Prevention Code, or Fire Code, shall mean the *International Fire Code* as adopted by this jurisdiction.

FUEL GAS CODE. Fuel Gas code shall mean the *International Fuel Gas Code* as adopted by this jurisdiction and shall be considered as part of the Plumbing Code. (See Plumbing Code.)

GROUPED (ATTACHED-OUTDOORS) (SAME LOCATION). Where this Code specifies that disconnects, overcurrent devices or equipment “shall be grouped”, the equipment shall not be separated more than thirty (30) feet and shall be on the same wall facing the same cardinal

orientation or elevation. This includes all service, service equipment, feeders, feeder disconnecting means, and all service disconnecting means.

HAZARDOUS LOCATION. (See Article 500.3). The location is not necessarily categorized in the *International Building Code* as a high-hazard use group classification. The areas consist of Class I, Divisions 1 and 2; Class II, Divisions 1 and 2; and Class III, Divisions 1 and 2.

MECHANICAL CODE. Mechanical Code shall mean the *International Mechanical Code* as adopted by this jurisdiction.

PLUMBING CODE. Plumbing Code shall mean the *International Plumbing Code* and the *International Fuel Gas Code* as adopted by this jurisdiction. The term "Plumbing Code" applies to both codes as one combined code.

RESIDENTIAL CODE. Residential Code shall mean the *International Residential Code* as adopted by this jurisdiction.

TECHNICAL CODES. The Fort Worth Building, Residential, Plumbing, Mechanical, Electrical, Sign, and Existing Building codes which regulate the construction, alteration, relocation, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures.

ARTICLE 110

**Article 110.2; change the following to read as follows:*

110.2 Approval. The conductors and equipment required or permitted by this *Code* shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third party inspection agency approved by the AHJ.

Exception: Unlisted equipment that is relocated to another location within a jurisdiction or is field modified is subject to the approval by the AHJ. This approval may be by a field evaluation by a NRTL or qualified third party inspection agency approved by the AHJ.

Informational Note No. 1: See 90.7, Examination of Equipment for Safety, and 110.3, Examination, Identification, Installation, and Use of Equipment. See definitions of Approved, Identified, Labeled, and Listed.

Informational Note No. 2: Manufacturer's self-certification of equipment may not necessarily comply with US product safety standards as certified by a Nationally Recognized Testing Lab.

Informational Note No. 3: NFPA 790 and 791 provide an example of an approved method for qualifying a third party inspection agency.

**Articles 110.80 and 110.81; added to read as follows:*

110.480 Primary Power Source. The primary power source for all buildings shall be from an electrical utility provider. Power sources, such as generator power, that supply a service panel for uses without a building, such as gas compressor sites, shall be regulated by this code.

Exceptions: 1. Alternate, non-generator power sources, including but not limited to fuel cell power plants, wind generators, solar panels, etc. are permitted when approved by the code official and installed in accordance with the provisions of this code and other city codes.

2. Temporary generator power is permitted for buildings that are connected to a normally active utility provider during periods of power outages, such as after a major storm. Any connection to the building power system shall be in compliance with this code.

3. Generator power to buildings as a primary power source shall only be permitted when approved by the code official. Such approval shall take into consideration all hazards such as fuel delivery, storage and usage, as well as, noise nuisances, and compliance with all other applicable codes and ordinances of this city.

Use of alternate power sources, inclusive of generators, shall not be permitted when the proposed use is in violation of other codes and ordinances of this city.

When permitted, such power source and connection shall be in compliance with this code, the Building Code and Fire Code. The attachment cable to the building shall be considered to be a service entrance conductor.

Fuel supply. An on-premises fuel supply, sufficient for not less than 2-hour full-demand operation of the system, shall be provided.

Exception: Where the system is supplied with pipeline natural gas and is approved.

Capacity. The standby system shall have a capacity and rating that supplies equipment required to be operational at the same time. The generating capacity is not required to be sized to operate all of the connected electrical equipment simultaneously if automatic load-shedding is provided. Unless otherwise specified in this code, the system shall be equipped with suitable means for automatically starting the generator upon failure of the normal electrical supply systems. The system shall be at full power within 60 seconds of such normal service failure.

Emergency systems. Emergency systems shall operate within 10 seconds of failure of the normal power supply and shall be capable of being transferred to the standby source.

110.81. Emergency and Standby Power Systems.

Exception: Exit sign, exit and means of egress illumination are permitted to be powered by a
CH.11 NEC Revision 2017

Ordinance No. 22836-08-2017

Page 4 of 17

standby source in buildings of Groups F and S occupancies.

ARTICLE 230.2

*Article 230.2(A); add a "Special Condition" 7, changed to read as follows:

(7) In supplying electrical service to other than single family dwellings, two or more laterals or overhead service drops shall be permitted to a building and they shall be grouped together.

*Article 230.2(B)(2); changed to read as follows: Buildings two-hundred-fifty (250) feet or more in length could have additional service locations with not less than one-hundred-seventy-five (175) feet of separation between utility points of delivery or service point and all meters shall be grouped at the same location.

ARTICLE 230.42

*Article 230.42(A); add two new paragraphs after item (2) to read as follows:

Service entrance conductors after the utility provider point of delivery or service point shall be subject to the requirements of this code and shall be sized based upon the overcurrent protection provided.

When the utility provider service conductors connect directly to the service equipment disconnecting means, the utility provider's service cables shall be subject to the requirements of this code and shall be sized based upon the service equipment overcurrent device.

ARTICLE 230.70

*Article 230.70(A); add a "Special Condition" 4 to read as follows:

(4) Where more than one electrical service is installed, all disconnecting means shall be grouped in the same location as follows:

- (A) All inside the building.
- (B) All outside and attached to the building

ARTICLE 230.71

*Article 230.71(A); add a sentence at the end of the first paragraph, followed by an exception changed to read as follows:

Multi-family dwelling units or multiple tenant buildings with meter banks exceeding six meters with disconnects supplied from one lateral shall have a main disconnecting means with over current protection.

Exception: For multi-occupant buildings, individual service disconnecting means is limited to six for each occupant. The number of individual disconnects at one location may exceed six. More than one lateral and tap can may be installed at a service location, but each tap can will be limited to six individual disconnecting means in compliance with 230.40, exceptions 1 & 2.

ARTICLE 250.50

**Article 250.50; changed to read as follows:*

250.50 Grounded Electrode System. All grounding electrodes as described in 250.52(A)(1) through (A)(7) that are present at each building or structure served shall be bonded together to form the grounding electrode system.

Where a metal underground water pipe, as described in item 250.52(A)(1), is not present, a method of grounding as specified in 250.52(A)(2) through (4) below shall be used.

Exception: Concrete-encased electrodes of existing buildings or structures shall not be required to be part of the grounding electrode system where the steel reinforcing bars or rods are not accessible for use without disturbing the concrete. (For purposes of this provision, "existing buildings or structures" shall not include concrete foundation(s) permitted as part of any alteration(s), addition(s), or new foundation(s)).

ARTICLE 250.52

**Article 250.52 (A)(4); changed to add an exception to read as follows:*

(4) Ground Ring. A ground ring encircling the building or structure, in direct contact with the earth, consisting of at least 6.0 m (20 ft.) of bare copper conductor not smaller than 2 AWG.

Exception: In lieu of encircling the building, two ground rod or pipe electrodes, complying with item 250.52(A)(5), may be used when separated by at least 20 feet and connected with a minimum of 2 AWG bare copper conductor at least 30 inches deep.

**Article 250.52(A)(5); changed to read as follows:*

(5) Rod and Pipe Electrodes. Rod and pipe electrodes meeting the requirements listed in this section may be installed for electrical services on the following structures:

- (a) Temporary services less than 200 amps.
- (b) Separate structures, temporary in nature, temporary being 12 months or less, when supplied from another building or temporary service pole, with an electrical service less than 200 amps, and a metal underground water pipe is not present.
- (c) Separate structures installed for permanent use, being 12 month or longer, and supplied from another building or permanent service pole, with an electrical service less than 200 amps, and a metal underground water pipe is not present.
- (d) Mobile home pedestals, less than 200 amps.
- (e) For supplemental electrode see 250.53(D)(2).

Such rod and pipe electrodes shall not be less than 2.44 m (8 ft.) in length and shall consist of the following materials.

(remainder of article unchanged)

ARTICLE 310.105(A)(3)

**Article 310.105(A)(3); add a sentence after the first paragraph to read as follows:*

Where NM, NMC, NMS and other cables, conductors and wiring methods listed in Chapter 3 are installed in an attic outside the building thermal envelope, the ambient temperature shall be considered to exceed 140°F.

ARTICLE 334.10

**Article 334.10; changed to read as follows:*

334.10 Uses Permitted. Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following:

- (1) One- and two-family dwellings.
- (2) Multifamily dwellings of Types III, IV, and V construction when of wood stud wall framing, except as prohibited in 334.12. When exceeding three (3) stories, as determined by the Building Code, an approved automatic sprinkler system is required throughout.

Exceptions: 1. Usage is permitted for multifamily dwellings of any construction type, with any wall framing material, in buildings not exceeding four (4) stories, as determined by the Building Code, when provided with an approved automatic sprinkler system.

2. Usage is permitted for multifamily dwellings of any construction type, with any wall framing material in buildings not exceeding five (5) stories, as determined by the Building Code, after the switchboard or panelboard of all individual dwelling units, when provided with an approved automatic sprinkler system.

- (3) Other structures of Types III, IV, and V construction when of wood stud wall framing, except as prohibited in 334.12. When exceeding three (3) stories, as determined by the Building Code, an approved automatic sprinkler system is required throughout.

Exceptions: 1. Usage is permitted for hotel/motel uses of any construction type, with any wall framing material, in buildings not exceeding four(4) stories, when provided with an approved automatic sprinkler system.

2. Usage is permitted in detached one (1) story commercial buildings not exceeding 5,000 square feet of any construction type with any wall framing material.

Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies.

- (4) Cable trays where the cables are identified for the use.

ARTICLE 440.6

**Article 440.6; add a sentence to read as follows:*

Branch circuits to AC condensing units 2 tons or larger shall be a minimum of 10 AWG copper conductors. See also attic temperatures in Articles 310.15(A)(3).

ARTICLE 500.8

**Article 500.8(A); changed to read as follows:*

(A) Suitability. Suitability of identified equipment shall be determined by any of the following:

- (1) Equipment listing or labeling
- (2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation
- (3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation or an engineering judgment signed and sealed by a qualified Registered Professional Engineer.

ARTICLE 505.7

**Article 505.7(A); changed to read as follows:*

(A) Implementation of Zone Classification System. Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed by a qualified Registered Professional Engineer in the State of Texas.

ARTICLE 550.1

**Amend Article 550.1 by adding Articles 550.1.1, 550.1.2, 550.1.3 and 550.1.4 to read as follows:*

Site requirements.

550.1.1 Applicability The provisions of this Article apply to the construction and maintenance of all mobile home and manufactured home parks.

550.1.2 All electrical wiring, power distribution lines, and telephone lines in a mobile home or manufactured home park shall be installed underground and in compliance with this code.

550.1.3 Street lights. Each internal street shall be provided with street lighting. Light standards shall have a height and spacing to ensure an average illumination level of not less than 0.2 foot candles.

550.1.4 History Mobile Home Park regulations were first adopted in May 18, 1970 (with retroactive provisions), Ordinance 6293. Recreational Vehicle Park regulations were first adopted by Ordinance 6372, effective October 12, 1970. Under Ordinance 12264, City Code Chapter 21, Mobile Home Parks was deleted and the provisions moved to the Fire Code Appendix. Such Appendix was continued thru Ordinances 14652, 14688 and 16027.

ARTICLE 551.1

Amend Article 551.1 by adding Articles 551.1.1, 551.1.2, 551.1.3, 551.1.4, 551.1.5, 551.1.6 and 551.1.7 to read as follows:

Site requirements.

The following provisions shall apply to Recreational Vehicle Parks and Recreational Vehicle lots that occur in Mobile Home and Manufactured Home Parks.

551.1.1 Applicability. The provisions of this Article apply to the construction and maintenance of all recreational vehicle parks.

551.1.2 All electrical wiring, main power distribution lines, and telephone lines shall be installed underground.

551.1.3 Individual electrical connections provided at recreational vehicle spaces shall include an approved disconnecting device and over current protective equipment.

551.1.4 Recreational Vehicle lots in Recreational Vehicle Parks and in Mobile Home or Manufactured Home Parks shall be master metered. Power releases shall not be permitted for

individual lots.

551.1.5 Street lights. Each internal street shall be provided with street lighting. Light standards shall have a height and spacing to ensure an average illumination level of not less than 0.2 foot candles.

551.1.6 Service and Auxiliary Buildings. This section shall apply to all service buildings, recreation buildings, management offices, repair shops, storage areas, sanitary facilities, laundry facilities, indoor recreation areas, commercial buildings supplying essential goods or services for park tenants, and other similar buildings in recreational vehicle parks.

Illumination levels shall be maintained, as a minimum, as follows:

- a. General seeing tasks: Five (5) foot candles.
- b. Laundry room work area: Forty (40) foot candles.
- c. Toilet room, in front of mirrors: Forty (40) foot candles.

551.1.7 History. Mobile Home Park regulations were first adopted in May 18, 1970 (with retroactive provisions), Ordinance 6293. Recreational Vehicle Park regulations were first adopted by Ordinance 6372, effective October 12, 1970. Under Ordinance 12264, City Code Chapter 21, Mobile Home Parks was deleted and the provisions moved to the Fire Code Appendix. Such Appendix was continued thru Ordinances 14652, 14688 and 16027.

ARTICLE 600.6

* Article 600.6(A)(1) Exception No. 1 changed to read as follows:

Exception No.1: A disconnect shall not be required for branch circuits(s) or feeder conductor(s) passing through the sign where enclosed in a Chapter 3 listed raceway or metal-jacketed cable identified for the location. The conductor(s) shall not serve the sign body or sign enclosure where passing through.

* Article 600.6(A)(1) Exception No. 2 changed to read as follows:

Exception No. 2. A disconnect shall not be required at the point of entry to a sign body, sign enclosure, or pole for branch circuit conductor(s). The conductors shall be enclosed in a Chapter 3 listed raceway or metal-jacketed cable identified for the location. The conductor(s) shall be routed to a device box which contains the disconnect. A field-applied permanent warning label that is visible during servicing shall be applied to the raceway at or near the point of entry into the sign enclosure or sign body. The warning label shall comply with 110.21(B) and state the following: "Danger. This raceway contains energized conductors." The marking shall include the location of the disconnecting means for the energized conductor(s). The disconnecting means shall

be capable of being locked in the open position in accordance with 110.25.

** Article 600.6(A)(1) Exception No. 3 added to read as follows:*

Exception No. 3: A disconnect shall not be required at the point of entry to a sign enclosure or sign body for branch circuit(s) or feeder conductor(s) that supply an internal panelboard(s) in a sign enclosure or sign body. The conductors shall be enclosed in a Chapter 3 listed raceway or metal-jacketed cable identified for the location. A field-applied permanent warning label that is visible during servicing shall be applied to the raceway at or near the point of entry into the sign enclosure or sign body. The warning label shall comply with 110.21(B) and state the following: "Danger. This raceway contains energized conductors." The marking shall include the location of the disconnecting means for the energized conductor(s). The disconnecting means shall be capable of being locked in the open position in accordance with 110.25.

ARTICLE 600.10

**Article 600.10; changed and expanded to 600.10.2, add (E); changed to read as follows:*

600.10. Portable or Mobile Signs.

Interior - Shall be those signs that are small in nature, usually hung from hooks in the wall or ceiling with an electrical cord for plug in or direct connection to an electrical source. These signs shall not be permitted to be installed in an outside location.

Exterior - Shall be those signs that are set on the exterior, usually but not always in the parking lot, limited in size as described in the Zoning and Sign Code, some of which may have wheels installed to permit the towing behind a vehicle.

600.10.2(E). Exterior.

- (A) Exterior portable or mobile signs shall not be illuminated by any electrical source. Those signs equipped with an electrical cord shall have it removed.
- (B) Signs shall be adequately secured to prevent overturning by wind.

ARTICLE 696 – ELECTRIFIED FENCES

696.1 Scope

This article applies to the installation and maintenance of *electrified fences* containing more than two energized strands and having a minimum height of more than twenty four (24) inches measured from grade to the highest strand.

696.2 Definitions

Protective Barrier. Permanent fence or wall that restricts direct access to the energized portions of an electrified fence. Permanent shall mean not being able to be removed, lifted or relocated without the use of a tool or equipment.

Electrified Fence. A fence energized with an electrical current.

Secure Area. The area bounded by the *electrified fence*.

696.3 Permits Required. An electrical permit is required for the installation, repair, and alteration of electrified fences. A separate permit is required for the installation of a *protective barrier*.

Exceptions:

1. The repair and replacement of *electrified fence* conductive strands, and posts or poles for electrified fence systems.
2. *Electrified fences* installed on agriculturally zoned property as defined in the Fort Worth Zoning Code.

696.3.1 Plan Submittal. Electrical permit applications for *electrified fences* shall include two complete sets of the following:

1. Site plan showing the location of the *protective barrier* and the *electrified fence* on the property in relationship to property lines, walkways and existing buildings.
2. Fence details showing both the *electrified fence* and *protective barrier*, including all gates.
3. Electrical details showing the equipment, wiring diagrams, grounding, and other information to insure compliance with the Fort Worth Electrical Code.
4. Energizer Output Certification Form as prescribed in section 696.8.

696.4 Fee. At the time of permit application, an electrical permit fee of one hundred seventy dollars (\$170.00) shall be paid.

696.5. Location Restrictions. *Electrified fences* shall not be installed at the following locations:

- a. Within five (5) feet of a building exit.
- b. Within thirty (30) feet of a hazardous material storage or handling areas.
- c. On roof tops or within buildings.
- d. All residential uses

696.6 Electrified Fence Height. *Electrified fences* shall be restricted to a maximum height of two (2) feet above the height of the *protective barrier*.

696.7 Electrical Equipment Standards. Electrical equipment, wiring, and grounding shall comply with the provisions of this Code and the following standards:

1. The energizer output shall comply with section 22.108 of the International Electrotechnical Commission (IEC)60335-276 Standard.
2. Energizers shall provide pulsed power.
3. AC current shall not be used to energize any electrified fence.
4. The energizer shall be powered by a DC battery not to exceed 12 volts. A trickle charger and solar panels may be used to recharge the battery but shall not directly energize the fence.
5. All ground system cables shall be properly insulated.
6. The electrified fence grounding system shall not be connected to any plumbing systems.
7. Each energizer shall be connected to its own ground system and shall not be connected to any other grounding system.

696.8 Energizer Output Certification. The applicant shall sign a form provided by the City of Fort Worth certifying that the electrified fence energizer output characteristics comply with section 22.108 of the IEC 6335-2-76 International Standard.

696.9 Protective Barrier. The perimeter of the *secure area* shall be protected by an additional non-electrified fence meeting the following standards:

1. The *protective barrier* shall be a permanent fence or wall at least six (6) feet in height above the adjacent grade, subject to the limitations of the City of Fort Worth Zoning Ordinance
2. Openings in the *protective barrier* shall not allow for the passage of a two (2) inch sphere. The maximum vertical clearance between grade and the bottom of the *protective barrier* shall be two (2) inch.

Exception: At rolling gates, the maximum vertical clearance between grade and the bottom of the *protective barrier* shall be four (4) inches.

3. The *protective barrier* shall be separated from the *electrified fence* by a minimum of six (6) inches and a maximum of twelve (12) inches.

Exception: Conductive stands installed at gates installed in *protective barriers* shall be separated from the gate by a maximum of twelve (12) inches.

696.10 Warning Signs. *Electrified fences* shall be clearly marked with warning signs. The warning signs shall be placed on the *protective barrier* at each entrance to the *secure area* and at intervals not to exceed thirty (30) feet along the entire perimeter of the fence line. Warning signs shall be located not less than five (5) feet above the adjacent walking surface.

696.10.1 Graphics. Warning signs shall be printed on both sides in both English and Spanish with the following text: "WARNING ELECTRIC FENCE" and contain the international symbol for electrical shock hazard. Signs shall be reflective with a minimum 2 inch letter height, minimum stroke of ½ inch and have a contrasting background.

696.11 Key Switch. A Fort Worth Fire Department permitted and approved key switch shall be installed to provide secure access to the electrical power disconnect switch by public safety personnel. The key switch shall be located at the main entry point to the property in a location approved by the Fire Official.

696.12 Commercial Business Hours of Activation. An *electrified fence* shall not be energized during the hours of normal business operation. However, where businesses are operating continuously on a twenty four (24) hour basis the conductors of an *electrified fence* shall not be energized unless all authorized persons within or entering the *secure area* have been informed of the electrified fence location.

696.13 Registration. *Electrified fences* permitted and installed after the effective date of this ordinance must be registered through the City of Fort Worth Planning and Development Department. The registration must be renewed annually from the date of permit issuance. The following information must be provided at the time of registration application:

1. Business Name
2. Address of Property
3. Contact Person / Representative
4. Address and phone number of contact person

Furthermore, an applicant for renewal must provide a notarized statement from a registered electrician or fence contractor specializing in the installation of electrified fences, certifying that the electrified fence and equipment is currently operating in conformance with the provisions of this Code.

696.13.1 Registration Renewal Fee. An annual registration renewal fee of \$120 shall be charged for the registration of *electrified fences*.

696.13.2 Barrier Fence Inspection. As part of the registration renewal process, a Building Ordinance Inspection shall be scheduled and approved verifying the integrity of the *Protective Barrier*.

SECTION 3.

That Section 11-3 of the Code of the City of Fort Worth (2015), as amended, is hereby amended to read as follows:

Sec. 11-3 Effect of Conflict with Other Ordinances.

This chapter shall be cumulative of all provisions of ordinances of the Code of the City of Fort Worth, Texas (2015), affecting Electrical Code provisions, as amended, and shall not repeal any of the provisions of such ordinances, except in those instances where provisions of such ordinances are in direct conflict with the provisions of this ordinance.

SECTION 4.

That Section 11-4 of the Code of the City of Fort Worth (2015), as amended, is hereby added to read as follows:

Sec. 11-4 Penalty for violation.

Any person, firm, or corporation violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine not to exceed Two Thousand Dollars (\$2,000.00) for all violations involving fire safety, or public health and sanitation and shall be fined not more than Five Hundred Dollars (\$500.00) for all other violations of this ordinance. Each day or any portion thereof during which any violation of this ordinance occurs or continues shall be deemed a separate offense and upon conviction thereof shall be punishable as herein provided.

SECTION 5.

This article shall be cumulative of all provisions of ordinances of the Code of the City of Fort Worth, Texas (2015), affecting Electrical Code provisions, as amended, and shall not repeal any of the provisions of such ordinances, except in those instances where provisions of such ordinances are in direct conflict with the provisions of this ordinance.

SECTION 6.

It is hereby declared to be the intention of the City Council that the sections, paragraphs, sentences, clauses, and phrases of this ordinance are severable, and, if any phrase, clause, sentence, paragraph, or section of this ordinance shall be declared void, ineffective, or unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such voidness, ineffectiveness, or unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this ordinance, since the same would have been enacted by the City Council without the incorporation in this ordinance of any such void, ineffective, or unconstitutional phrase, clause, sentence, paragraph, or section.

SECTION 7.

Any person, firm, or corporation violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine not to

exceed Two Thousand Dollars (\$2,000.00) for all violations involving fire safety, or public health and sanitation and shall be fined not more than Five Hundred Dollars (\$500.00) for all other violations of this ordinance. Each day or any portion thereof during which any violation of this ordinance occurs or continues shall be deemed a separate offense and upon conviction thereof shall be punishable as herein provided.

SECTION 8.

All rights and remedies of the City of Fort Worth, Texas are expressly saved as to any and all violations of the previous Electrical Code, or any other ordinances affecting construction and fire safety, which have accrued at the time of the effective date of this ordinance: and, as to such accrued violations and all pending litigation, both civil and criminal, whether pending in court or not, under such ordinances, same shall not be affected by this ordinance but may be prosecuted until final disposition by the courts.

SECTION 9.

A copy of the 2017 National Electrical Code, together with the local amendments contained in this ordinance, shall be filed in the office of the City Secretary for permanent record and inspection.

SECTION 10.

The Department of Planning and Development of the City of Fort Worth, Texas, is hereby authorized to publish this ordinance in pamphlet form for general distribution among the public, and the operative provisions of this ordinance as so published shall be admissible in evidence in all courts without further proof than the production thereof, as provided in Chapter XXV, Section 3, of the Charter of the City of Fort Worth, Texas.

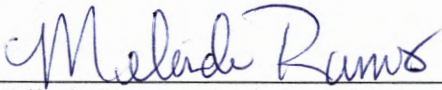
SECTION 11.

The City Secretary of the City of Fort Worth, is hereby directed to publish the caption and Sections 1, 7, 9, 11 and 12 of this ordinance for two (2) days in the official newspaper of the City of Fort Worth, Texas as authorized by Section 2, Chapter XXV of the Charter of the City of Fort Worth, Texas and by Section 52.013 (a) of the Texas Local Government Code.

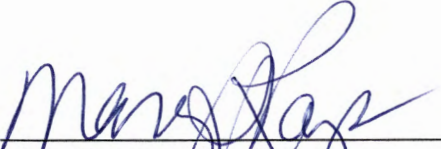
SECTION 12.

This ordinance shall take effect upon September 1, 2017.

APPROVED AS TO FORM AND LEGALITY:



Melinda Ramos, Assistant City Attorney



Mary Kayser, City Secretary

ADOPTED: August 15, 2017

EFFECTIVE: September 1, 2017